Network Control Center

STDN DAILY REPORT
FOR GMT DAYS
04, 05 AND 06 JUNE , 2001

Part I. Operations

04 JUNE

A. SN Anomalies:

1. STGT/XTE Support 04/1603-1623Z

Spacecraft configured to a non-working antenna. Negative acq entire pass. No RF present. Anomaly is under investigation by POCC TTR # 23918

171 SSA1F/R 20 Mins Svc Loss 19 Min 30 Second Data Loss Recoverable

B. ISS Anomalies - None.

C. GN Anomalies:

1.SKS/QST Support 04/1323-1331Z

Loss of the 4 kb real-time housekeeping and 262 KB HK1 telemetry data was due to a software failure. The system was recovered and successfully provided the last 4 minutes (155/13:31:30 – 155/13:35:52) of telemetry data. CDS ID # 18919

S-Band 8 Mins 23 Seconds Data Loss Non-Recoverable

2. AGS/TRACE Support 04/1547-1559Z

At AOS, input commands were connected but there were no

output command connections established. Tried rebooting, would not take during support. Entire pass was recorded and commands were sent but no real time data was sent. CDS ID # 18920

TOTS-1 11 Mins 51 Seconds Data Loss Recoverable

3. AGS/TRACE Support 04/1547-1559Z

FEP was in the process of being rebooted At AOS, input commands were connected on TPCE but there was no output data connection established. Tried aborting scheduled session, then activating manually. The data connection would not take during support. Entire pass was recorded and no commands were received and no real time data was sent. CDS ID # 18921

TOTS-1 11 Mins 51 Seconds Data Loss Recoverable

4. SGS/QST Support 04/1825-1841Z

At AOS the operator noted that there was no lock on the PTP #1 Card#3 used for RT 16k. On spectrum it was verified that 16k were coming to the receivers. The operator checked the setup for analog/digital matrixes, bit syncs and demod, but couldn't find anything wrong. The Bit Sync #3 was set in local mode and a manual setup was performed. We monitored with O scope the input signal into the demod, bit syncs and through the matrixes, and no anomalies were found. Postpass we tried long loop with different bit syncs, but still same problem present. We tried to hardwire the matrixes also. We got the next track for orbit 10207 and at AOS we had solid lock on 16k. Why the unstable lock occurred is still strange and troubleshooting is ongoing. On orbit 10207 we also noted an unstable socket connection for the commanding line. Every time QMOC sent a command, we got socket waiting. Reason of this is unknown. CDS ID # 18924

11M 1825-1841Z 15 Min. 15 Sec. Svc/Data Loss (Recov)

5. WGS/QST Support 04/2340-2354Z

Antenna was halting and oscillating during the QST pass, reason for failure is unknown at this time. Operator intervention has to be used to take the antenna from program to standby and back to program to get the antenna to move. This appears to have possibly been the problem on the two Solar passes where the downlink appeared to drop out. It appears that the problem is getting worse, the antenna should be considered red/yellow until the problem is corrected. CDS ID # 18923

11M 14 Min. Svc/Data Loss (Non-Recov)

F. TDRS-5 (1304) E/W Stationkeeping Maneuver was successful.

05 JUNE

A. SN Anomalies - None.

B. ISS Anomalies - None.

C. GN Anomalies:

1. SGS/QST Support 05/1800-1816Z

At AOS no lock was obtained on the PTP, no frames received. Bitsync#3 normally feeding the PTP1#3, showed good lock, but no data came through to the PTP. Coming towards the end of the support, we re-powered the 329 Aydin PSK Demod, and managed to capture 43 frames, with 10 drops. It turned out that it was this re-powering that solved the problem, long-loop testing post-pass showed good data, and the following QST support went well. CDS ID # 18929

11M 1800-1816Z 15 Min. 12 Sec. Svc/Data Loss (Non-Recov)

06 JUNE

A. SN Anomalies:

1. WSGT/ERBS Support 06/0815-0825Z

ERBS POCC reported getting I channel sync dropouts and loss of signal. No alerts were received by the CSC, and the Comm Manager didn't see any block errors. White Sands technicians configured the DQM to monitor the output of the ITU and saw momentary hits of inverted data. A review of the LOR tape showed the same data inversions. ERBS POCC event log showed 7 sync dropouts and 4 drop locks for a total of 11 secs. There was no data loss declared. TTR # 23919

TDE SSA1/R 0814-0827Z 11 Seconds Service Loss

2. STGT/FUSE Support 06/1911-1926Z

Late acquisition. STS plus indicated that during the first 6 minutes of the schedule event the FUSE spacecraft was out of view of TDRS SPARE. Anomaly possible a scheduling or spacecraft aspect problem. TTR # 23920

TDS SSA2F/R 1911-1928Z 14 Min. 20 Sec. Svc/Data Loss (Recov unknown)

B. ISS Anomalies - None.

C. GN Anomalies:

1. SGS/EO-1 Support 06/1207-1211Z

After AOS operator discovered that the Ampex's was not recording. It was then discovered that the distribution unit got incorrect cable settings. This caused that the beginning of the X-band dump was missing. The problem was fixed at 12:11:00Z and then reported to EO1 MOC. They immediately started the X-band dump again and managed to capture all data. CDS ID # 18936

11M 1207-1221Z 12 Min. 11 Sec. Svc/Data Loss (Recov)

2. WGS/SOLAR-A Support 06/2220-2225Z

Antenna stopped moving after tracking for 6 minutes with no problems. Attempted switch to program track with no success. Applied time bias with no success. Removed all time bias and recovered downlink just seconds prior to final LOS. This is an on-going problem that seems to be peculiar to SOLAR-A supports. CDS ID # 18937

11M 2213-2225Z 5 Min. Svc/Data Loss (Non-Recov)

D. TDRS-7 (171) E/W station keeping maneuver completed nominally.

Part II. Testing Anomalies

A. SN Test - None.

B. GN Test:

1. STS-104 LAUNCH SIMULATION #2 WITH JSC/WPS 05/1400-05/2000Z NISN/NCC/ MIL/PDL/JSC MCC/WPS KSC/CDSC,

OBJECTIVES:
To verify STS OPS procedures and equipment interfaces in preparation for STS launch support.

RESULTS: OBJECTIVE PARTIALLY MET

REMARKS:
Both the JSC and NOCC interface checks were nominal. Wallops reported a red 9M antenna and that they could not provide tracking data during the launch simulation. After the JSC interface, two launch runs were performed. During the first run there was a PA fault at PDL which was corrected by a reset of the

PA. Other than that, no other problems were encountered. The second launch run was nominal. The launch Sim was temporarily delayed in order to perform an interface with OAFS/TCS. Neither the NOCC interface nor the JSC interface was completed. Post simulation investigation revealed that there was echo on the backup circuit (F102)to the NCC MOSA and on the prime (F140) to JSC. Therefore, a successful test with OAFS/TCS could not be performed. The JSC GC and GSFC OPS elected to proceed with the launch simulation without OAFS/TCS. OAFS/TCS will be tested at a later date. One more launch run was performed, without problems, and the simulation was terminated.

Part III. Equipment Status Changes - None.

$ = Changed ETRO
** = New Items

Part IV. Scheduled Activities:

HESSI OPERATIONS READINESS TESTING/ HESSI MOCC/WPS
07/1515-1608Z

ENGINEERING TEST WITH JASON-1 POCC and PKRR
07/1700-1800Z

Part V. Launch Forecast Changes

1.) W1576LS (PEGASUS/HESSI) NET 12 JUN.,2001
T-0 = 1405Z